

**DECISION DOCUMENT**  
**Landfill Turn Table Area, SWMU J-26**  
**Hawthorne Army Depot**  
**Hawthorne, Nevada**  
**April 2000**

**1. PURPOSE of DECISION DOCUMENT**

**1.1 Introduction**

This decision document describes the rationale for the remedial action at, and closure of, Solid Waste Management Unit (SWMU) J-26, Landfill Turn Table Area, at the Hawthorne Army Depot (HWAD), Hawthorne, Nevada. This decision document was developed by the U.S. Army Corps of Engineers, Sacramento District (USACE), HWAD, and Day & Zimmermann Hawthorne Corporation, with support from the Nevada Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP).

**1.2 Site Description and Background**

SWMU J-26 is described as the building foundations in the Camp Jumbo area. Camp Jumbo was reportedly a housing area for civilian employees of HWAD during WWII and had been a CCC Camp before the war. The materials of concern are dispersed fragments of white, fibrous pipe insulation material which is suspected of containing asbestos material.

Tetra Tech conducted a visual inspection of the site in November 1993. A number of concrete slab foundations were observed with dispersed fragments of white, fibrous pipe insulation material, which is suspected to be asbestos-containing material. The CCC camp consisted of a dozen or more wood frame buildings. The pipe insulation would probably have been used on boiler pipes for shower facilities, and may have been centralized at one facility. Most of the piping was probably removed when the buildings were razed. Most of the insulation appeared to be present in large, intact pieces although some of the material was in smaller, disintegrating wads observed over a wide area.

The depth to ground water at the site is estimated to be about 170-190 feet below ground surface based on the ground water depth in nearby base supply well no. 5 about 2000 feet to the south. The site is at about the same elevation as the well (about 4260 feet above msl). The water level in well no. 5 was 4090 feet above mean sea level in 1974. The estimated current depth to ground water takes into account an estimated decline in the water table of 20 feet since 1974.

**1.3 Chemicals of Concern**

The chemical of concern is asbestos in the form of pipe insulation remnants.

**2. SUMMARY of SITE RISK**

The risk for potential exposure to asbestos material is present. All suspected debris should be removed.

### **3. SUMMARY of REMEDIAL INVESTIGATIONS and REMEDIAL ACTIONS**

#### **3.1 Remedial Investigations**

##### **3.1.1 Objectives**

The objective of the investigation at this SWMU is to identify all suspected asbestos-containing materials on the ground surface.

##### **3.1.2 Investigation**

Tetra Tech conducted a visual inspection of the site in November 1993. Fragments of white, fibrous pipe insulation material, suspected of being asbestos-containing material, were observed.

##### **3.1.3 Results**

Two samples were collected at this SWMU and analyzed for asbestos. The first sample was collected from a debris pile of white, crumbly material thought to possibly contain asbestos. The second sample was a soil sample from underneath this debris pile. Both samples were negative for asbestos. The white material was determined to be wallboard material containing mostly gypsum. These analytical results are included at Appendix A.

#### **3.2 Remedial Actions**

##### **3.2.1 Summary of Remedial Alternatives**

The remedial alternative for this site is the removal of all suspected asbestos-containing material.

##### **3.2.2 Summary of Remedial Actions**

The suspected asbestos-containing material, including all pipe insulation, was removed from this SWMU and disposed of properly.

### **4. PUBLIC/COMMUNITY INVOLVEMENT**

It is U.S. Department of Defense (DOD) and Army policy to involve the local community throughout the investigation process at an installation. To initiate this involvement, HWAD has established a repository in the local public library, which includes final copies of all past studies and documents regarding environmental issues at the facility. This repository will be maintained and updated with all future final documents as they are issued to HWAD.

HWAD has solicited community participation in establishment of the restoration advisory board (RAB). However, because of insufficient public response, HWAD has not formed a RAB. HWAD will continue to solicit community involvement.

**5. CONCLUSIONS and RECOMMENDATIONS**

With the removal of the suspected asbestos-containing material, this site should no longer pose any risk.

This SWMU will be closed with regard to the chemical of concern and without land use restrictions.

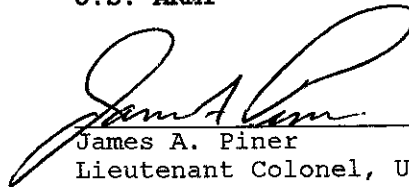
**6. DECLARATION**

The selected remedy is protective of human health and the environment. It has been shown that a complete exposure pathway to human health and the environment does not exist, and there is no potential for such an exposure pathway to be completed in the future.

**26 JUN 2000**

Date

**U.S. ARMY**

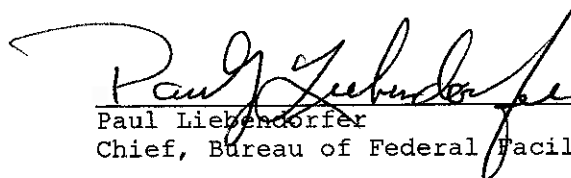


James A. Piner  
Lieutenant Colonel, U.S. Army  
Commanding

**STATE OF NEVADA**

**04 August 2000**

Date

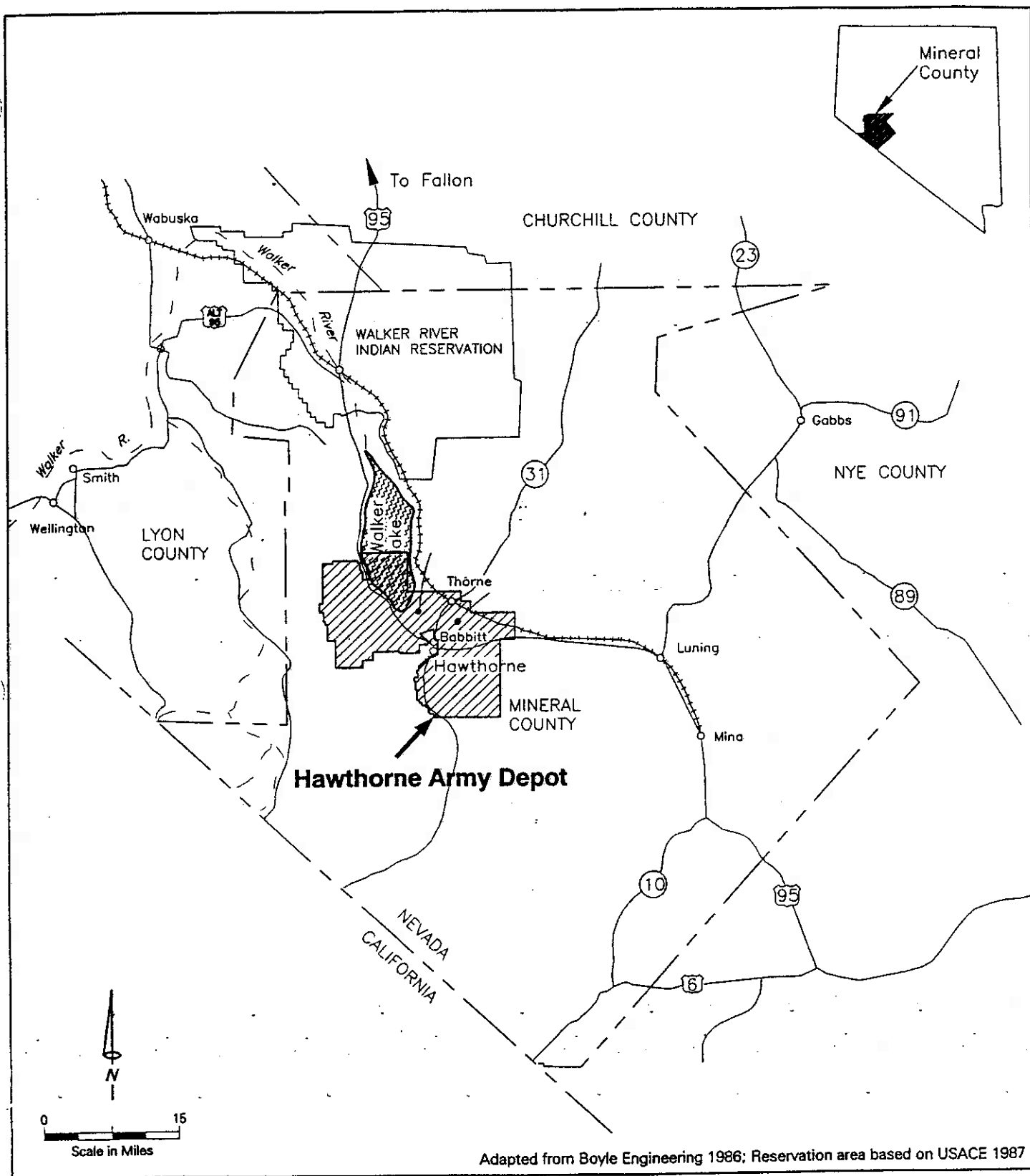


Paul Liebendorfer  
Chief, Bureau of Federal Facilities

**References**

Tetra Tech, May 1994. Remedial Investigation Plan, Group B Solid Waste Management Units, Final Work Plan.

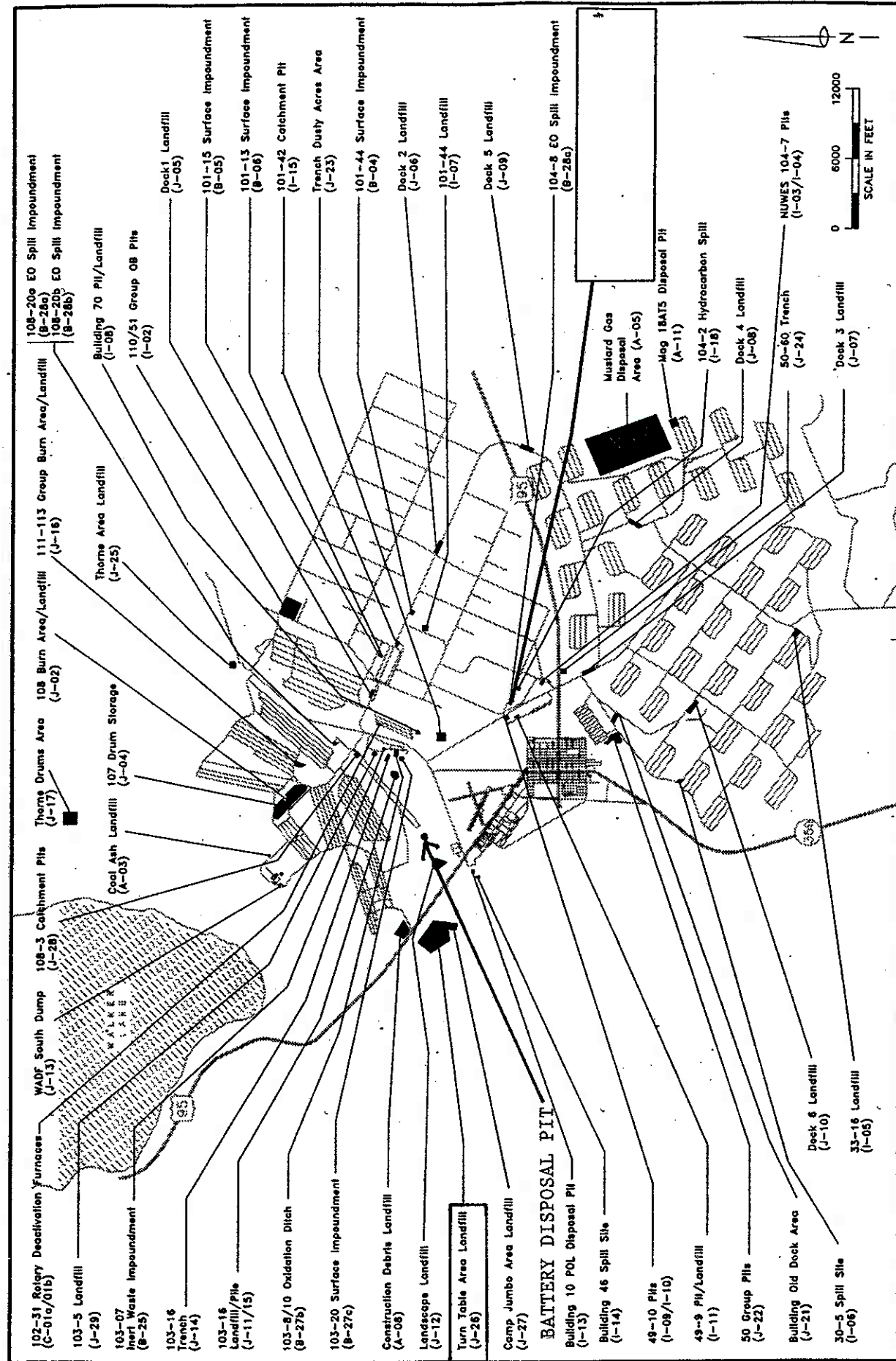
## **Figures**



**Legend**

 Hawthorne Army Depot

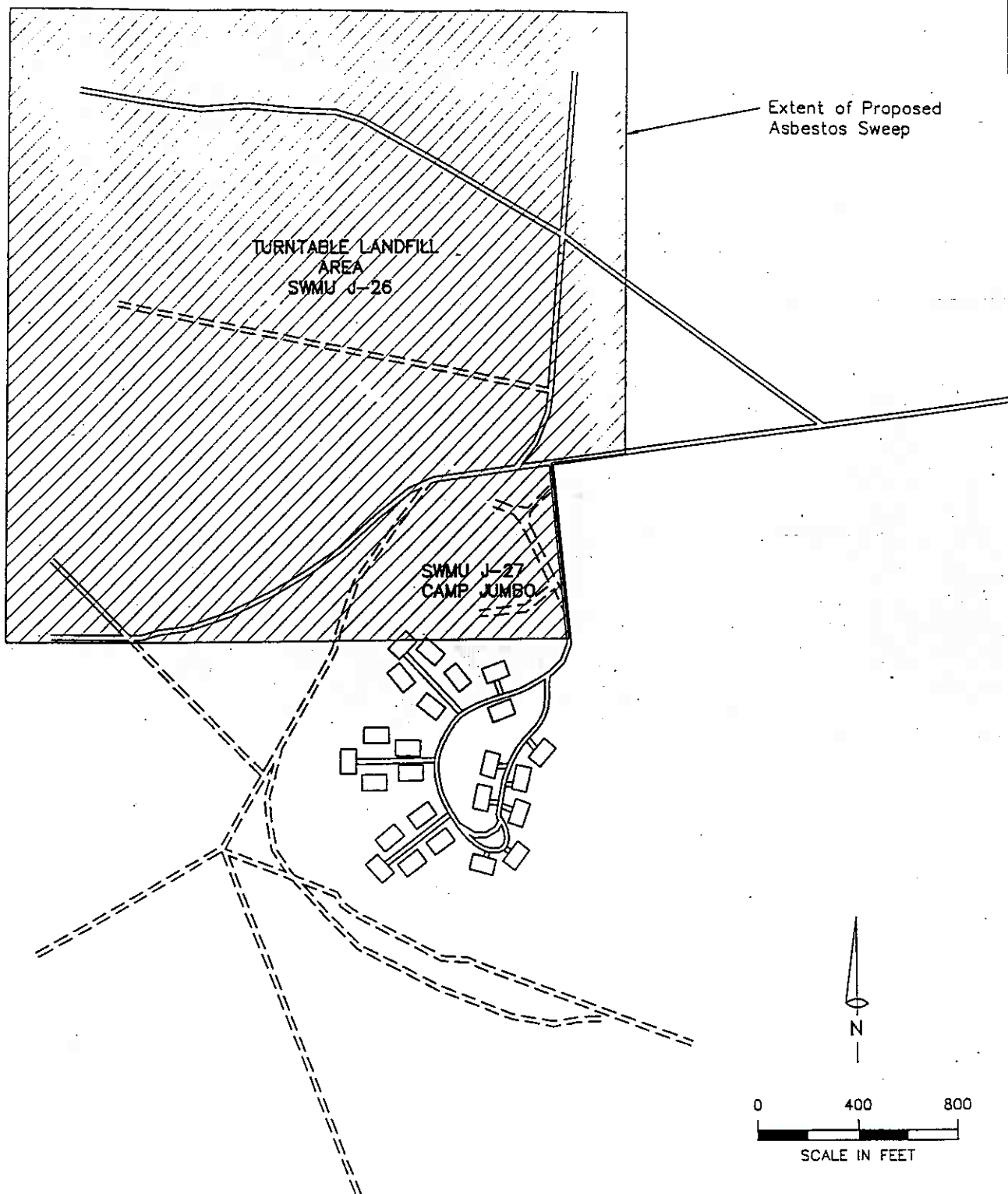
Hawthorne Army Depot  
Hawthorne, Nevada



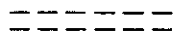
TEIRA TECH

# Location Map Hawthorne Army Depot

Hawthorne, Nevada



# EXPLANATION



Dirt Road

PROJECT NO.  
9702-11

FILE NO.  
J-26

DATE  
5/16/94

DRAWN BY  
MRA

PREPARED BY

REVIEWED BY

REVISIONS BY DATE



TETRA TECH, INC.

Site Plan of Landfill-Turn Table Area  
(SWMU J-26)

## **Appendix A**

# POLARIZED LIGHT MICROSCOPY ANALYTICAL REPORT

EPA Method 600/R-93/116

Contact: Ms. Veronica Bovee

Samples Submitted: 2

Report No. 91239

Address: Day & Zimmermann

Samples Analyzed: 2

Date Submitted: Mar-18-98

P.O. Box 15, Safety Office

Date Reported: Mar-19-98

Hawthorne, NV 89415

Job Site / No. Camp Jumbo

Date Analyzed:

SAMPLE ID	ASBESTOS % TYPE	NON-ASBESTOS	DESCRIPTION
			FIELD LAB
GM98073 . Lab ID # 906-018-001	None Detected	Fibers: 1-5% Cellulose	Camp Jumbo Clean-up, Wall-Board Material, White & Brown
		Matrix: 95-99% Gyp, Calc, Other m.p.	Sheetrock-Off-White
GM98074 . Lab ID # 906-018-002	None Detected	Fibers: <1% Cellulose	Camp Jumbo Clean-up, Ground-Dirt, Brown
		Matrix: 99-100% Qtz, Mica, Other m.p.	Soil-Brown
Lab ID #		Fibers:	
		Matrix:	
Lab ID #		Fibers:	
		Matrix:	
Lab ID #		Fibers:	
		Matrix:	
Lab ID #		Fibers:	
		Matrix:	
Lab ID #		Fibers:	
		Matrix:	
Lab ID #		Fibers:	
		Matrix:	
Lab ID #		Fibers:	
		Matrix:	
Lab ID #		Fibers:	
		Matrix:	

Detection Limit of Method is Estimated to be 1% Asbestos Using a Visual Area Estimation Technique

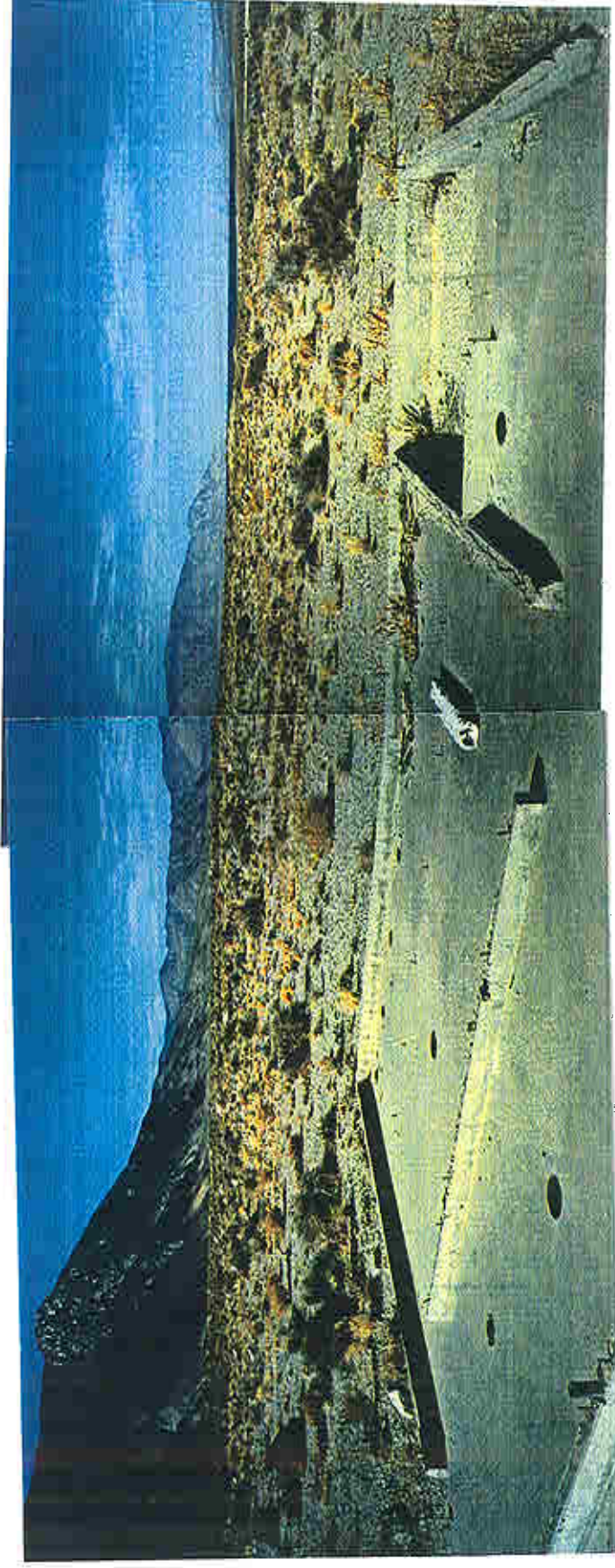
Lab Manager

Analyst

ASBESTOS TEM LABORATORIES, INC.

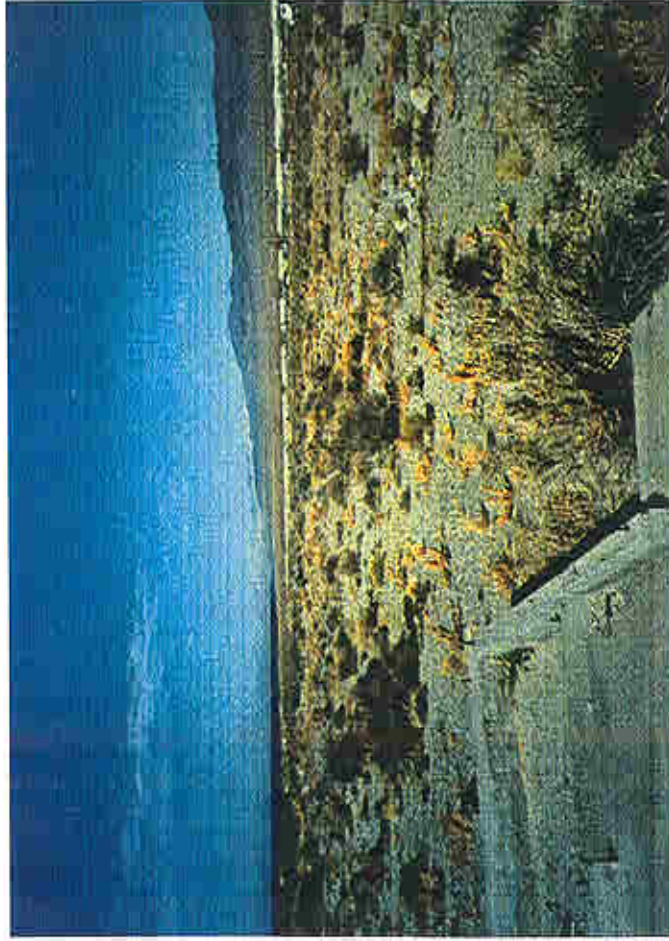
952 Greg Street, Sparks, NV 88431 Ph. 702-356-1300  
1409 Fifth Street, Berkeley, CA 94710 Ph. 510-528-0108

## **Appendix B**



J-26, View to north (continuation of pan to west of #R8-P2) across former CCC camp building slab, with piece of asbestos pipe insulation. #R8-P3/4,  
11/5/93

Before remediation

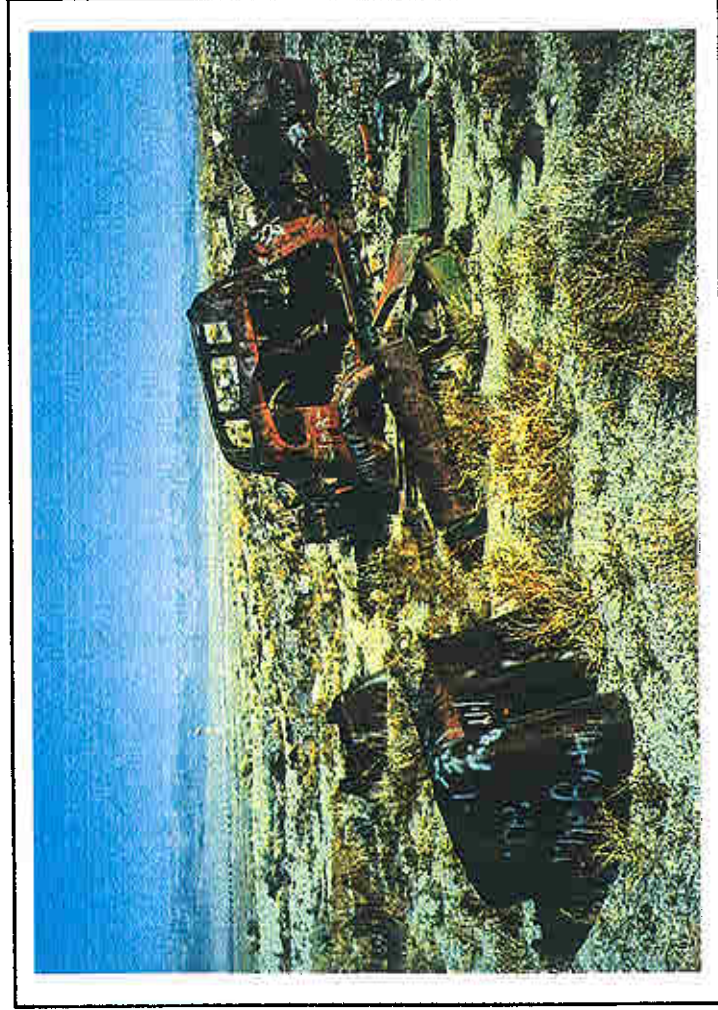


J-26, View to north (continuation of counterclockwise pan from #R8-P11/12- same as #R8-P2). #R8-P13, 11/5/93



J-26, Detail of asbestos pipe insulation among wood and debris. #R8-P14, 11/5/93

Before remediation



J-26, Close up of old car body and metal debris in old solid waste landfill.  
#R8-P19, 11/5/93

Before remediation

After remediation

